Index of Authors

ABREU, L. *See* LOGULLO, C.

ADAGU, I. S. *See* GROBUSCH, M. P.

ADAMSON, R. E. *See* SOMERVILLE, R. P. T.

AGATSUMA, T. *See* VAN HERWERDEN, L.

ALAWI, K. S. *See* BOOTH, M.

ALBONICO, M. *See* BOOTH, M.

ALFIERI, S. C. *See* BALANCO, J. M. F.

ALVES, E. W. *See* LOGULLO, C.

ANDREWS, R. H. *See* MONIS, P. T.

APPLETON, P. L. and VICKERMAN, K. *In vitro* cultivation and developmental cycle in culture of a parasitic dinoflagellate (*Hematodinium* sp.) associated with mortality of the Norway lobster (*Nephrops norvegicus*) in British waters, 115

ARNOT, D. E. *See* ROPER, C.

ARUMANAYAGAM, M. *See* SENOK, A. C.

BAIRDEN, K. *See* WALLACE, D. S.

BALANCO, J. M. F., PRAL, E. M. F., DA SILVA, S., BIJOVSKY, A. T., MORTARA, R. A. and ALFIERI, S. C. Axenic cultivation and partial characterization of *Leishmania braziliensis* amastigote-like stages, 103

BATES, P. A. *See* ZAKAI, H. A.

BIJOVSKY, A. T. *See* BALANCO, J. M. F.

BLAIR, D. *See* MORGAN, J. A. T.

BLAIR, D. *See* VAN HERWERDEN, L.

BODO, J. M. *See* MORLAIS, I.

BOOTH, M., BUNDY, D. A. P., ALBONICO, M., CHWAYA, H. M., ALAWI, K. S. and SAVIOLI, L. Associations among multiple geohelminth species infections in school children from Pemba Island, 85

BOULAY, M., SCOTT, M. E., CONLY, S. L., STEVENSON, M. M. and KOSKI, K. G. Dietary protein and zinc restrictions independently modify a *Heligmosomoides polygyrus* (Nematoda) infection in mice, 449

BRENNAN, G. P. *See* COLHOUN, L. M.

BROWN, C. G. D. *See* SOMERVILLE, R. P. T.

BUNDY, D. A. P. *See* BOOTH, M.

BÜTTNER, D. W. *See* WILDENBURG, G.

CARCUPINO, M. *See* DEZFULI, B. S.

CARVER, F. J. and HURD, H. The effect of metacestodes of *Hymenolepis diminuta* on the bean-shaped accessory glands in male *Tenebrio molitor*, 191

CERTA, U. *See* HUBER, W.

CHAI, J.-J. *See* ZHANG, L.-H.

CHANCE, M. L. *See* ZAKAI, H. A.

CHARLWOOD, J. D. *See* HUBER, W.

CHEN, C. C. *See* LIU, C. T.

CHEN, G.-Z. *See* DAY, T. A.

CHWAYA, H. M. *See* BOOTH, M.

COELHO, P. M. Z. *See* RIBEIRO, F.

COLHOUN, L. M., FAIRWEATHER, I. and BRENNAN, G. P. Observations on the mechanism of eggshell formation in the liver fluke, *Fasciola hepatica*, 555

CONE, D. K. *See* MARCOGLIESE, D. J.

CONLY, S. L. *See* BOULAY, M.

COULSON, P. S. *See* IMBERT-ESTABLET, D.

COX, D. M. and HOLLAND, C. V. The relationship between numbers of larvae recovered from the brain of *Toxocara canis*-infected mice and social behaviour and anxiety in the host, 579

CUNY, G. *See* MORLAIS, I.

DA SILVA, S. *See* BALANCO, J. M. F.

DAS, P. K. *See* SUBRAMANIAN, S.

DA SILVA VAZ, I. *See* LOGULLO, C.

DAVIS, R. E. Action of excitatory amino acids on hypodermis and the motornervous system of *Ascaris suum*: pharmacological evidence for a glutamate transporter, 487

DAVIS, R. E. Neurophysiology of glutaminatergic signalling and anthelmintic action of *Ascaris suum*: pharmacological evidence for a kainate receptor, 471

DAVYDOV, V. G. *See* KORNEVA, J. V.

DAY, T. A. and CHEN, G.-Z. The metalloprotease inhibitor 1, 10-phenanthroline affects *Schistosoma mansoni* motor activity, egg laying and viability, 319

DE LIMA, M. F. R. *See* LOGULLO, C.

DEZFULI, B. S., ONESTINI, S., CARCUPINO, M. and MISCHIATI, C. The cement apparatus of larval and adult *Pomphorhynchus laevis* (Acantocephala: Palaeacanthocephala), 437

DICK, A. *See* SCOTT, I.

DJOHA, S. *See* MORLAIS, I.

DRAKELEY, C. J., MULDER, L., TCHUINKAM, T., GUPTA, S., SAUERWEIN, R. and TARGETT, G. A. T. Transmission-blocking effects of sera from malaria-exposed individuals on *Plasmodium falciparum* isolates from gametocyte carriers, 417

DUBE, ANURADHA, SHARMA, P., SRIVASTAVA, J. K., MISRA, A., NAIK, S. and KATIYAR, J. C. Vaccination of langur monkeys (*Presbytis entellus*) against *Leishmania donovani* with autoclaved *L. major* plus BCG, 219

DUBEY, J. P. Re-examination of resistance of *Toxoplasma gondii* tachyzoites and bradyzoites to pepsin and trypsin digestion, 43

DUBEY, J. P. *See* SPEER, C. A.

DUDEN, R. *See* TOPP, H.

DUNCAN, J. L. *See* WALLACE, D. S.

ECKERSHALL, P. D. *See* WALLACE, D. S.

EKALE, D. *See* WAHL, G.

ELHASSAN, I. M. *See* ROPER, C.

ENYONG, P. *See* WAHL, G.

EY, P. L. *See* MONIS, P. T.

FAIRWEATHER, I. *See* COLHOUN, L. M.

FARIA, F. S. *See* LOGULLO, C.

FELLOWES, R. A., MAULE, A. G., MARKS, N. J., GEARY, T. G., THIMPSON, D. P., SHAW, C. and HALTON, D. W. Modulation of the motility of the vagina vera of *Ascaris suum in vitro* by FMRFamide-related peptides, 277

FIALHO OLIVEIRA, E. *See* LOGULLO, C.

FINKEN-EIGEN, M. *See* SCHÜßLER, P.

FISHWICK, G. *See* WALLACE, D. S.

FUCHSBERGER, N. *See* HAJNICKÁ, V.

GATIKA, S. M. *See* WAMAE, C. N.

GEARY, T. G. *See* FELLOWES, R. A.

GIHA, H. *See* ROPER, C.

GILL, M. *See* WALLACE, D. S.

GINSBURG, H. *See* HOSHEN, M. B.

GONZALES, J. C. *See* LOGULLO, C.

GÖRINGER, H. U. *See* SHU, H. H.

GOTTSTEIN, B. *See* INGOLD, K.

GREBAUT, P. *See* MORLAIS, I.

GREVELDING, C. G. *See* SCHÜßLER, P.

GROBUSCH, M. P., ADAGU, I. S., KREMSNER, P. G. and WARHURST, D. C. *Plasmodium falciparum : in vitro* chloroquine susceptibility and allele-specific PCR detection of *Pfmdr* 1 $^{Asn}86^{Tyr}$ polymorphism in Lambarene, Gabon, 211

GUPTA, S. *See* DRAKELEY, C. J.

HABBEMA, J. D. F. *See* SUBRAMANIAN, S.

HAJI, H. *See* HUBER, W.

HAJNICKÁ, V., FUCHSBERGER, N., SLOVÁK, M., KOCAKOVA, P.,

LABUDA, M. and NUTTALL, P. A. Tick salivary gland extracts promote virus growth *in vitro*, 533
HALL, F. R. *See* SOMERVILLE, R. P. T.
HALTON, D. W. *See* FELLOWES, R. A.
HARGROVE, J. W. *See* WOOLHOUSE, M. E. J.
HEMPHILL, A. *See* INGOLD, K.
HOLLAND, C. V. *See* COX, D. M.
HOLMES, P. H. *See* WALLACE, D. S.
HOLZ, R. A., WRIGHT, D. J. and PERRY, R. N. Changes in the lipid content and fatty acid composition of 2nd-stage juveniles of *Globodera rostochiensis* after rehydration, exposure to the hatching stimulus and hatch, 183
HORÁK, P., KOVÁŘ, L., KOLVÁŘOVÁ, L. and NEBESÁŘOVÁ, J. Cercaria–schistosomulum surface transformation of *Trichobilharzia szidati* and its putative immunological impact, 139
HOSHEN, M. B., STEIN, W. D. and GINSBURG, H. Modelling the chloroquine chemotherapy of falciparum malaria: the value of spacing a split dose, 407
HOU, R. F. *See* LIU, C. T.
HUBER, W., HAJI, H., CHARLWOOD, J. D., CERTA, U., WALLIKER, D. and TANNER, M. Genetic characterization of the malaria parasite *Plasmodium falciparum* in the transmission from the host to the vector, 95
HURD, H. *See* CARVER, F. J.
HVIID, L. *See* ROPER, C.
HYDE, J. E. *See* SHAIO, M.-F.

IMBERT-ESTABLET, D., MONE, H., COULSON, P. S. and WILSON, R. A. Schistosome-induced portacaval haemodynamic changes in *Rattus rattus* are associated with translocation of adult worms to the lungs, 237
INGOLD, K., GOTTSTEIN, B. and HEMPHILL, A. Identification of a laminated layer-associated protein in *Echinococcus multilocularis* metacestodes, 363
IRVINE, J. *See* SCOTT, I.
ISAAC-RENTON, J. L. *See* MONIS, P. T.

JIAO, W. *See* ZHANG, L.-H.
JOHANSEN, M. V. Effect of praziquantel treatment on experimental porcine *Schistosoma japonicum* infection, 519

KAMIYA, M. *See* MATSUMOTO, J.
KATIYAR, J. C. *See* DUBE, ANURADHA
KNOX, D. P. *See* LIDDELL, S.
KOCAKOVA, P. *See* HAJNICKÁ, V.
KÖHRER, K. *See* SCHÜßLER, P.
KOLÁŘOVÁ, L. *See* HORÁK, P.
KORNEVA, J. V., KUPERMAN, B. I. and DAVYDOV, V. G. Ultrastructural investigation of the secondary excretory system in different stages of the procercoid of *Triaenophus nodulosus* (Cestoda, Pseudophyllidea, Triaenophoridae), 373
KORTEN, S. *See* WILDENBURG, G.
KOSKI, K. G. *See* BOULAY, M.
KOVÁŘ, L. *See* HORÁK, P.
KREMSNER, P. G. *See* GROBUSCH, M. P.
KRISHNAMOORTHY, K. *See* SUBRAMANIAN, S.
KULDA, J. *See* MONIS, P. T.
KUNZ, W. *See* SCHÜßLER, P.
KUPERMAN, B. I. *See* KORNEVA, J. V.
KUSEL, J. R. *See* RIBEIRO, F.

LABUDA, M. *See* HAJNICKÁ, V.
LAMMIE, P. J. *See* WAMAE, C. N.
LEE, C.-S. *See* SHAIO, M.-F.
LI, C. K. *See* SENOK, A. C.
LI, K. *See* SENOK, A. C.
LIDDELL, S. and KNOX, D. P. Extracellular and cytoplasmic Cu/Zn superoxide dismutases from *Haemonchus contortus*, 383
LIU, C. T., HOU, R. F. and CHEN, C. C. Formation of basement membrane-like structure terminates the cellular encapsulation of microfilariae in the haemocoel of *Anopheles quadrimaculatus*, 511
LOGULLO, C., DA SILVA VAZ, I., SORGINE, M. H. F. PAIVA-SILVA, G. O., FARIA, F. S., ZINGALI, R. B., DE LIMA, M. F. R., ABREU, L., FIALHO OLIVEIRA, E., ALVES, E. W., MASUDA, H., GONZALES, J. C., MASUDA, A. and OLIVEIRA, P. L. Isolation of an aspartic proteinase precursor from the egg of a hard tick, *Boophilus microplus*, 525

MACKRILL, J. *See* MONIS, P. T.
MARCOGLIESE, D. J. and CONE, D. K. Comparison of richness and diversity of macroparasite communities among eels from Nova Scotia, the United Kingdom and Australia, 73
MARKS, N. J. *See* FELLOWES, R. A.
MASUDA, A. *See* LOGULLO, C.
MASUDA, H. *See* LOGULLO, C.
MATSUMOTO, J., YAGI, K., NONAKA, N., OKU, Y. and KAMIYA, M. Time-course of antibody response in mice against oral infection with eggs of *Echinococcus multilocularis*, 463
MAULE, A. G. *See* FELLOWES, R. A.
MAYRHOFER, G. *See* MONIS, P. T.
MCKELLAR, Q. A. *See* SCOTT, I.
MCKELLAR, Q. A. *See* WALLACE, D. S.
MCMANUS, D. P. *See* ZHANG, L.-H.
MEDLEY, G. F. *See* OCHANDA, H.
MICHEL, A. *See* SCHÜßLER, P.
MIKHEEV, V. N., VALTONEN, E. T. and RINTAMÄKI-KINNUNEN, P. Host searching in *Argulus foliaceus* L. (Crustacea: Branchiura): the role of vision and selectivity, 425
MISCHIATI, C. *See* DEZFULI, B. S.
MISRA, A. *See* DUBE, ANURADHA
MONE, H. *See* IMBERT-ESTABLET, D.
MONIS, P. T., ANDREWS, R. H., MAYRHOFER, G., MACKRILL, J., KULDA, J., ISAAC-RENTON, J. L. and EY, P. L. Novel lineages of *Giardia intestinalis* identified by genetic analysis of organisms isolated from dogs in Australia, 7
MORLAND, S. *See* WALTHER, B. A.
MORGAN, J. A. T. and BLAIR, D. Relative merits of nuclear ribosomal internal transcribed spacers and mitochondrial CO1 and ND1 genes for distinguishing among *Echinostoma* species (Trematoda), 289
MORLAIS, I., GREBAUT, P., BODO, J. M., DJOHA, S. and CUNY, G. Characterization of trypanosome infections by polymerase chain reaction (PCR) amplification in wild tsetse flies in Cameroon, 547
MORTARA, R. A. *See* BALANCO, J. M. F.
MOYOU, R. *See* WAHL, G.
MULDER, L. *See* DRAKELEY, C. J.
MURRAY, M. *See* WALLACE, D. S.
MURTA, S. M. F. and ROMANHA, A. J. *In vivo* selection of a population of *Trypanosoma cruzi* and clones resistant to benznidazole, 165

NAGANO, I. *See* WU, Z.
NAIK, S. *See* DUBE, ANURADHA
NEBESÁŘOVÁ, J. *See* HORÁK, P.
NELSON, E. A. S. *See* SENOK, A. C.
NGOSSO, A. *See* WAHL, G.
NONAKA, N. *See* MATSUMOTO, J.
NUTTALL, P. A. *See* HAJNICKÁ, V.

OCHANDA, H., YOUNG, A. S., MEDLEY, G. F. and PERRY, B. D. Vector competence of 7 rhipicephalid tick stocks in transmitting 2 *Theileria parva* parasite stocks from Kenya and Zimbabwe, 539
OKU, Y. *See* MATSUMOTO, J.
OLIVEIRA, P. L. *See* LOGULLO, C.
ONESTINI, S. *See* DEZFULI, B. S.
OSMAN, Y. *See* ZHANG, L.-H.

OWEN, M. R. and TREES, A. J. Vertical transmission of *Toxoplasma gondii* from chronically infected house (*Mus musculus*) and field (*Apodemus sylvaticus*) mice determined by polymerase chain reaction, 299

PAIVA-SILVA, G. O. *See* LOGULLO, C.
PANKHURST, S. J. *See* PORTEOUS, I. S.
PARKINS, J. J. *See* WALLACE, D. S.
PERRY, B. D. *See* OCHANDA, H.
PERRY, R. N. *See* HOLZ, R. A.
PLAISIER, A. P. *See* SUBRAMANIAN, S.
PORTEOUS, I. S. and PANKHURST, S. J. Social structure of the mara (*Dolichotis patagonum*) as a determinant of gastro-intestinal parasitism, 269
POULIN, R. *See* THOMAS, F.
POWELL, K. *See* RIBEIRO, F.
PRAL, E. M. F. *See* BALANCO, J. M. F.

RAMAIAH, K. D. *See* SUBRAMANIAN, S.
RENZ, A. *See* WAHL, G.
RIBEIRO, F., COELHO, P. M. Z., VIEIRA, L. Q., POWELL, K. and KUSEL, J. R. Membrane internalization processes in different stages of *Schistosoma mansoni* as shown by a styryl dye (Frei Mao 1–43), 51
RIBEIRO, F., COELHO, P. M. Z., VIEIRA, L. Q., WATSON, D. G. and KUSEL, J. R. The effect of praziquantel treatment on glutathione concentration in *Schistosoma mansoni*, 229
RICHARDSON, W. *See* ROPER, C.
RINTAMÄKI-KINNUNEN, P. *See* MIKHEEV, V. N.
ROBERTS, J. M. *See* WAMAE, C. N.
ROMANHA, A. J. *See* MURTA, S. M. F.
ROPER, C., RICHARDSON, W., ELHASSAN, I. M., GIHA, H., HVIID, L., SATTI, G. M. H., THEANDER, T. G. and ARNOT, D. E. Seasonal changes in the *Plasmodium falciparum* population in individuals and their relationship to clinical malaria: a longitudinal study in a Sudanese village, 501

SATTI, G. M. H. *See* ROPER, C.
SAUERWEIN, R. *See* DRAKELEY, C. J.
SAVIOLI, L. *See* BOOTH, M.
SCHMITZ, A. *See* WAHL, G.
SCHÖCH, G. *See* TOPP, H.
SCHIBEL, J. M. *See* WAHL, G.
SCHÜßLER, P., KÖHRER, K., FINKEN-EIGEN, M., MICHEL, A., GREVELDING, C. G. and KUNZ, W. A female-specific cDNA sequence of *Schistosoma mansoni* encoding an amidase that is expressed in the gastrodermis, 131
SCOTT, I., STEAR, M. J., IRVINE, J., DICK, A., WALLACE, D. S. and MCKELLAR, Q. A. Changes in the zymogenic cell populations of the abomasa of sheep infected with *Haemonchus contortus*, 569
SCOTT, M. E. *See* BOULAY, M.
SENOK, A. C., LI, K., NELSON, E. A. S., ARUMANAYAGAM, M. and LI, C. K. Flow cytometric assessment of oxidant stress in age-fractionated thalassaemic trait erythrocytes and its relationship to *in vitro* growth of *Plasmodium falciparum*, 1
SHU, H. H. and GÖRINGER, H. U. *Trypanosoma brucei* mitochondrial ribonucleoprotein complexes which contain 12S and 9S ribosomal RNAs, 157
SHAIO, M.-F., WANG, P., LEE, C.-S., SIMS, P. F. G. and HYDE, J. E. Development and comparison of quantitative assays for the dihydropteroate synthetase codon 540 mutation associated with sulfadoxine resistance in *Plasmodium falciparum*, 203
SHARMA, P. *See* DUBE, ANURADHA
SHAW, C. *See* FELLOWES, R. A.
SIMS, P. F. G. *See* SHAIO, M.-F.
SLOVÁK, M. *See* HAJNICKÁ, V.
SOMMER, C. Quantitative characterization, classification and reconstruction of oocyst shapes of *Eimeria* species from cattle, 21
SOMERVILLE, R. P. T., ADAMSON, R. E., BROWN, C. G. D. and HALL, F. R. Metastasis of *Theileria annulata* macroschizont-infected cells in *scid* mice is mediated by matrix metalloproteinases, 223
SORGINE, M. H. F. *See* LOGULLO, C.
SPEER, C. A. and DUBEY, J. P. Ultrastructure of the early stages of infections in mice fed *Toxoplasma gondii* oocysts, 35
SRIVASTAVA, J. K. *See* DUBE, ANURADHA
STEAR, M. J. *See* SCOTT, I.
STEAR, M. J. *See* WALLACE, D. S.
STEIN, W. D. *See* HOSHEN, M. B.
STEPHAN, U. *See* TOPP, H.
STEVENSON, M. M. *See* BOULAY, M.
SUBRAMANIAN, S., KRISHNAMOORTHY, K., RAMAIAH, K. D., HABBEMA, J. D. F., DAS, P. K. and PLAISIER, A. P. The relationship between microfilarial load in the human host and uptake and development of *Wuchereria bancrofti* microfilariae by *Culex quinquefasciatus*: a study under natural conditions, 243

TAKAHASHI, Y. *See* WU, Z.
TANNER, M. *See* HUBER, W.
TARGETT, G. A. T. *See* DRAKELEY, C. J.
TCHUINKAM, T. *See* DRAKELEY, C. J.
THEANDER, T. G. *See* ROPER, C.
THOMAS, F. and POULIN, R. Manipulation of a mollusc by a trophically transmitted parasite: convergent evolution or phylogenetic inheritance? 431
THOMPSON, D. P. *See* FELLOWES, R. A.
TOPP, H., DUDEN, R., STEPHAN, U. and SCHÖCH, G. The degradation rates of cytoplasmic tRNA, rRNA and mRNA in rats are elevated after infection with *Nippostrongylus brasiliensis*, 197
TREES, A. J. *See* OWEN, M. R.
TUBBESING, H. *See* WAHL, G.

VALTONEN, E. T. *See* MIKHEEV, V. N.
VAN HERWERDEN, L., BLAIR, D. and AGATSUMA, T. Intra- and inter-specific variation in nuclear ribosomal internal transcribed spacer 1 of the *Schistosoma japonicum* species complex, 311
VICKERMAN, K. *See* APPLETON, P. L.
VIEIRA, L. Q. *See* RIBEIRO, F.

WAHL, G., ENYONG, P., NGOSSO, A., SCHIBEL, J. M., MOYOU, R., TUBBESING, H., EKALE, D. and RENZ, A. *Onchocerca ochengi*: epidemiological evidence of cross-protection against *Onchocerca volvulus* in man, 349
WAHL, G. and SCHIBEL, J. M. *Onchocerca ochengi*: morphological identification of the L3 in wild *Simulium damnosum* s.l. verified by DNA probes, 337
WAHL, G., EKALE, D. and SCHMITZ, A. *Onchocerca ochengi*: assessment of the *Simulum* vectors in North Cameroon, 327
WALLACE, D. S., BAIRDEN, K., DUNCAN, J. L., ECKERSHALL, P. D., FISHWICK, G., GILL, M., HOLMES, P. H., MCKELLAR, Q. A., MURRAY, M., PARKINS, J. J. and STEAR, M. J. The influence of dietary supplementation with urea on resilience and resistance to infection with *Haemonchus contortus*, 67
WALLACE, D. S. *See* SCOTT, I.
WALLIKER, D. *See* HUBER, W.
WALTHER, B. A. and MORAND, S. Comparative performance of species richness estimation methods, 395
WAMAE, C. N., GATIKA, S. M., ROBERTS, J. M. and LAMMIE, P. J. *Wuchereria bancrofti* in Kwale District, Coastal Kenya: patterns of focal distribution of infection, clinical manifestations and anti-filarial IgG responsiveness, 173
WANG, P. *See* SHAIO, M.-F.
WARHURST, D. C. *See* GROBUSCH, M. P.
WATSON, D. G. *See* RIBEIRO, F.
WILDENBURG, G., KORTEN, S. and BÜTTNER, D. W. Mast cell

distribution in nodules of *Onchocerca volvulus* from untreated patients with generalized onchocerciasis, 257

WILSON, R. A. *See* IMBERT-ESTABLET, D.

WOOLHOUSE, M. E. J. and HARGROVE, J. W. On the interpretation of age–prevalance curves for trypanosome infections of tsetse flies, 149

WRIGHT, D. J. *See* HOLZ, R. A.

WU, Z., NAGANO, I. and TAKAHASHI, Y. Differences and similarities between *Trichinella spiralis* and *T. pseudospiralis* in morphology of stichocyte granules, peptide maps of excretory and secretory (E–S) products and messenger RNA of stichosomal proteins, 61

YAGI, K. *See* MATSUMOTO, J.

YOUNG, A. S. *See* OCHANDA, H.

ZAKAI, H. A., CHANCE, M. L. and BATES, P. A. *In vitro* stimulation of metacyclogenesis in *Leishmania braziliensis*, *L. donovani*, *L. major* and *L. mexicana*, 305

ZHANG, L.-H., CHAI, J.-J., JIAO, W., OSMAN, Y. and MCMANUS, D. P. Mitochondrial genomic markers confirm the presence of the camel strain (G6 genotype) of *Echinococcus granulosus* in north-western China, 29

ZINGALI, R. B. *See* LOGULLO, C.

Index of Subjects

Acathocephalan cement apparatus, an ultrastructural study of in *Pomphorhynchus laevis*, 437
Age–prevalence curves, interpretation of for trypanosome infections of tsetse flies, 149
Amastigotes, of *Leishmania braziliensis*, axenic cultivation of, 103
Amidase, a female-specific cDNA sequence encoding in *Schistosoma mansoni*, 131
Anopheles quadrimaculatus, inhibition of encapsulation of microfilariae of, 511
Antibody response, in mice against oral infection with *Echinococcus multilocularis* eggs, 463
Anxiety, effect of on *Toxocara canis* larvae numbers in the brain of infected mice, 579
Argulus foliaceus L., host searching in, 425
Ascaris suum, effect of FMRFamide-related peptides on the motility of the vagina vera of, 277
neurophysiology of glutamatergic signalling and anthelmintic action in, 471
pharmacological evidence for a kainate receptor in, 471
Aspartic proteinase precursor, from *Boophilus microplus* eggs, 525
Axenic cultivation, of *Leishmania braziliensis* amastigote-like stages, 103

Benznidazole, selection of a population and clones of *Trypanosoma cruzi* resistant to, 165
Boophilus microplus, isolation of an aspartic proteinase precursor from the eggs of, 525

Cellular encapsulation, of microfilariae is inhibited by formation of a basement membrane-like structure, 511
Cement apparatus, of larval and adult *Pomphorhynchus laevis*, 437
Cercaria–schistosomulum surface transformation, of *Trichobilharzia szidati*, 139
Characterization, of oocyst shapes of *Eimeria* spp. from cattle, 21
of trypanosome infections in wild tsetse flies, by PCR, 547
Chemotherapy, of falciparum malaria with chloroquine, a model for, 407
Chloroquine, modelling the chemotherapy of for falciparum malaria, 407
Chloroquine resistance, and *Pfmdr 1* polymorphisms in Gabon, 211
Classification, of oocyst shapes of *Eimeria* spp. from cattle, 21
Comparative performance, of species richness estimation methods, 395
Convergent evolution, in the manipulation of host behaviour, 431
Cross-protection, against *Onchocerca volvulus* in man, by *Onchocerca ochengi*, 349
Culex quinquefasciatus, uptake of *Wuchereria bancrofti* microfilariae by, 243
Cu/Zn superoxide dismutases, from *Haemonchus contortus*, 383

Density dependence, effect of on the uptake of *Wuchereria bancrofti* microfilariae by *Culex quinquefasciatus*, 243
Development, of *Wuchereria bancrofti*, effect of microfilarial load on, 243
Dietary protein deficiency, modification of *Heligmosomoides polygyrus* infection of mice by, 449
Dietary urea supplementation, effect of on *Haemonchus contortus* infections in lambs, 67
Dihydropteroate synthase, assays for the mutation of in *Plasmodium falciparum*, 203
Dinoflagellate, associated with mortality of the Norway lobster, 115
Diversity, of macroparasite communities among eels from Nova Scotia, the UK and Australia, 73
Dolichotis patagonum, gastro-intestinal parasitism in, 269

Echinococcus granulosus, presence of the camel strain of in north-western China, 29
Echinococcus multilocularis, antibody response against oral infection of mice with the eggs of, 463
identification of a laminated layer-associated protein in the metacestodes of, 363
Echinostoma species, distinction between using nuclear and mt DNA methods, 289
Egg of *Boophilus microplus*, isolation of aspartic proteinase precursor from, 525
Eggshell formation, mechanism of in *Fasciola hepatica*, 555
Eimeria spp., characterization, classification and reconstruction of the oocysts of, 21
Encapsulation of microfilariae, inhibition of in mosquitoes, 511
Estimation methods, for species richness, comparative performance of, 395
Excretory–secretory products, comparison of between *Trichinella spiralis* and *T. pseudospiralis*, 61
Excretory system, of *Triaenophorus nodulosus*, ultrastructural investigation of, 373

Fasciola hepatica, mechanism of eggshell formation in, 555
Female-specific amidase, of *Schistosoma mansoni*, 131
FMRFamide-related peptides, effects of on the mobility of *Ascaris suum* vagina vera, 277
Focal distribution, of *Wuchereria bancrofti* in Kenya, 173

Gastro-intestinal parasitism, in *Dolichotis patagonum*, 269
Genetic analysis, of *Echinococcus granulosus*, 29
of *Giardia intestinalis* from dogs in Australia, 7
Genetic characterization, of *Plasmodium falciparum* transmission, 95
Geohelminth infections, in schoolchildren from Pemba Island, 85
Giardia intestinalis, novel lineages of from dogs in Australia, 7
Globodera rostochiensis, changes in lipid content during hatching in, 183
Glutathione concentration, in *Schistosoma mansoni*, effect of praziquantel treatment on, 229

Haemonchus contortus, Cu/Zn superoxide dismutases, 383
influence of dietary urea on infection of lambs with, 67
Haemonchus contortus-infected sheep, changes in the zymogenic cell populations of the abomasa of, 569
Haemonchosis, pepsinogen production in, 569
Hatching, changes in lipid content during in *Globodera rostochiensis*, 183
Heligmosomoides polygyrus, dietary protein and zinc restrictions modify infection with, 449
Hematodinium sp., development of, 115
Host behaviour, manipulation of, 431
Host searching, in *Argulus foliaceus* L., 425
Hymenolepis diminuta, effect of the metacestodes of on male *Tenebrio molitor*, 191

Immunohistochemical detection, of mast cells in nodules of *Onchocerca volvulus*, 257
Infection clustering, amongst geohelminth infections in schoolchildren, 85

Infective larvae (L3), of *Onchocerca ochengi*, morphological identification of in wild *Simulium damnosum*, 337
In vitro cultivation, of *Hematodinium* sp., a parasitic dinoflagellate, 115
ITS1 variants, in *Schistosoma japonicum*, 311

Kainate receptor, in *Ascaris suum*, 471

Laminated layer-associated protein, identification of in *Echinococcus multilocularis* metacestodes, 363
Leishmania braziliensis, axenic cultivation of amastigote-like stages of, 103
Leishmania donovani, vaccination of langur monkeys against, 219
Leishmania major + BCG, vaccination of monkeys with against *Leishmania donovani*, 219
Leishmania spp., *in vitro* stimulation of metacyclogenesis in, 305
Lipid content, changes in during hatching in *Globodera rostochiensis*, 183

Macroparasite communities, comparison of richness and diversity of, 73
Malaria parasite populations, seasonal changes in, 501
Mara, host–parasite interaction of, 269
Mast cells, distribution of in nodules of *Onchocerca volvulus*, 257
Mathematical models, describing age–prevalence curves for trypanosome infections of tsetse, 149
Membrane internalization, demonstration of in *Schistosoma mansoni*, using a styryl dye, 51
Metacestodes, of *Echinococcus multilocularis*, identification of a laminated layer-associated protein in, 363
Metacyclogenesis, *in vitro* stimulation of in *Leishmania* spp., 305
Metalloprotease inhibitor, effects of on *Schistosoma mansoni* motor activity, egg laying and viability, 319
Metalloproteinases, role of in the metastasis of *Theileria annulata* infected cells, 223
Metastasis, of *Theileria annulata*-infected cells, role of matrix metalloproteinases in, 223
Mitochondrial genomic markers, use of to confirm the presence of *Echinococcus granulosus* G6 genotype in north-western China, 29
Mitochondrial ribonucleoproteins in *Trypanosoma brucei*, 157
Modelling, of optimal chloroquine chemotherapy, 407
Molecular genetic characterization, use of to distinguish among *Echinostoma* species, 289
mtDNA vs nuclear methods, use of to distinguish *Echinostoma* species, 289
Multiple-species infections, among schoolchildren from Pemba Island, 85
Murine alveolar echinococcosis, antibody response in, 463

Neuropeptides, effect of on the motility of *Ascaris suum* vagina vera, 277
Neurophysiology of glutamatergic signalling, in *Ascaris suum*, 471
Nippostrongylus brasiliensis, infections of in rats increase RNA degradation rate, 197
Norway lobster, mortality of associated with *Hematodinium* sp., 115
Novel lineages, of *Giardia intestinalis* from dogs, 7

Onchocerca ochengi, evidence of cross-protection of against *Onchocerca volvulus* in man, 349
morphological identification of the L3 of in wild *Simulium damnosum*, 337
Simulium vectors of in North Cameroon, 327
Onchocerca volvulus, cross-protection against in man by *Onchocerca ochengi*, 349
mast cell distribution in nodules of, 257
Oocyst shapes, of *Eimeria* spp. from cattle, 21
Oxidant stress, in thalassaemic trait erythrocytes, effects of on *in vitro* growth of *Plasmodium falciparum*, 1

Pfmdr 1 polymorphism, and chloroquine susceptibility to *Plasmodium falciparum*, 211
Phenanthroline, effects of on *Schistosoma mansoni* motor activity, egg laying and viability, 319
Phylogenetic inheritance, in the manipulation of host behaviour, 431
Phylogenetic study, of the *Schistosoma japonicum* species complex, 311
Plasmodium falciparum, chloroquine resistance to and *Pfmdr 1* polymorphism, 211
dihydropteroate synthetase mutation in, 203
effect of oxidant stress in thalassaemic trait erythrocytes on the *in vitro* growth of, 1
genetic tracking of the transmission of, 95
modelling the chloroquine chemotherapy of, 407
transmission of isolates of, 417
Plasmodium falciparum populations, seasonal changes in, 501
Pomphorhynchus laevis, the cement apparatus of, 437
Portacaval shunting, induction of in rats by *Schistosoma mansoni*, 237
Praziquantel, effect of on experimental porcine *Schistosoma japonicum* infection, 519
effect of treatment with on glutathione concentration in *Schistosoma mansoni*, 229

Rattus rattus, portacaval shunting in, 237
Resistance, of a population and clones of *Trypanosoma cruzi* to benznidazole, 165
of *Toxoplasma gondii* tachyzoites to pepsin digestion, 43
Rhipicephalid ticks, transmission of *Theileria parva* by, 539
Richness, of macroparasite communities among eels from Nova Scotia, the UK and Australia, 73
RNA degradation, elevation of in rats infected with *Nippostrongylus brasiliensis*, 197

Saliva, of blood-feeding ticks promotes virus growth *in vitro*, 533
Schistosoma japonicum, ITS 1 variants in, 311
Schistosoma japonicum infection, effect of praziquantel treatment on, 519
Schistosoma mansoni, a female-specific cDNA sequence of encoding an amidase, 131
effect of praziquantel treatment on the glutathione concentration in, 229
effects of 1,10-phenanthroline on motor activity, egg laying and viability of, 319
membrane internalization processes in, 51
Schistosome-induced portacaval shunting, in *Rattus rattus*, 237
Selectivity, role of in host searching in *Argulus foliaceus* L., 425
Simulium damnosum, identification of *Onchocerca ochengi* L3 in, 337
Simulium vectors, of *Onchocerca ochengi* in North Cameroon, 327
Social behaviour, effect of on *Toxocara canis* larvae numbers in the brain of infected mice, 579
Species richness estimation methods, comparative performance of, 395
Stichosomal glycoproteins, comparison of messenger RNA of between *Trichinella spiralis* and *T. pseudospiralis*, 61
Styryl dye FM 1–43, use of to demonstrate membrane internalization processes in *Schistosoma mansoni*, 51
Sudan, seasonal changes in the *Plasmodium falciparum* population in individuals from, 501
Sulfadoxine resistance, in *Plasmodium falciparum*, is associated with a dihydropteroate synthase mutation, 203

Superoxide dismutase, extracellular and cytoplasmic, from *Haemonchus contortus*, 383
Surface transformation, of *Trichobilharzia szidati*, immunological impact of, 139

Tenebrio molitor, effect of *Hymenolepis diminuta* metacestodes on male accessory glands of, 191
Thalassaemic trait erythrocytes, effect of oxidant stress in on the *in vitro* growth of *Plasmodium falciparum*, 1
Theileria annulata-infected cells, metastasis of, 223
Theileria parva, transmission of by rhipicephalid ticks, 539
Tick salivary gland extracts, promotion of virus growth *in vitro* by, 533
Toxocaris canis-infected mice, effect of social behaviour and anxiety on brain larvae numbers, 579
Toxoplasma gondii oocysts, ultrastructure of early stages of infection in mice fed with, 35
resistance of tachyzoites and bradyzoites of to pepsin and trypsin digestion, 43
vertical transmission of from mice, 299
Translational activity, of *Trypanosoma brucei*, 157
Transmission blocking activity, of sera from malaria-exposed individuals, 417
Transmission, of isolates of *Plasmodium falciparum*, 417
of *Plasmodium falciparum*, genetic tracking of, 95
of *Theileria parva*, by rhipicephalid ticks, 539
Trichinella spiralis, differences and similarities between *T. pseudospiralis*, 61
Trichobilharzia szidati, cercaria–schistosomulum transformation of, 139
Triaenophorus nodulosus, ultrastructural investigation of the secondary excretory system in, 373
Trypanosoma brucei, mitochondrial protein biosynthesis in, 157
Trypanosoma cruzi, selection of a population and clones of resistant to benznidazole, 165
Trypanosome infections, identification of in wild tsetse flies by PCR, 547
of tsetse flies, interpretation of age–prevalence curves for, 149
Tsetse flies, identification of trypanosome infections in by PCR, 547

Ultrastructural investigation, of the secondary excretory system of *Triaenophorus nodulosus*, 373
Ultrastructural observations, on eggshell formation in *Fasciola hepatica*, 555
Ultrastructure, of early *Toxoplasma gondii*, 35
Urea supplementation, effect of on infection of lambs with *Haemonchus contortus*, 67

Vaccination, of langur monkeys against *Leishmania donovani*, 219
Vagina vera of *Ascaris suum*, modulation of the motility of by FMRFamide-related peptides, 277
Vectors, of *Onchocerca ochengi* in North Cameroon, 327
Vertical transmission, of *Toxoplasma gondii* from chronically infected field and house mice, 299
Virus growth *in vitro*, is promoted by tick salivary gland extracts, 533

Wuchereria bancrofti, focal distribution of in Kenya, 173
uptake of the microfilariae of by *Culex quinquefasciatus*, 243

Zinc restriction, modification of *Heligmosomoides polygyrus* infection of mice by, 449
Zymogenic cell populations, changes in, in the abomasa of *Haemonchus contortus*-infected sheep, 569